

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiesa: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,270	04/13/2005	Hiroshi Iwakiri	Q87201	4666
23373 7590 03/10/2009 SUGHRUE MION, PLLC 2100 PENNSYL VANIA AVENUE, N.W.			EXAMINER	
			LIGHTFOOT, ELENA TSOY	
SUITE 800 WASHINGTON, DC 20037		ART UNIT	PAPER NUMBER	
			1792	
			MAIL DATE	DELIVERY MODE
			03/10/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/531,270 IWAKIRI ET AL. Office Action Summary Examiner Art Unit Elena Tsoy Lightfoot 1792 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 09 January 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-5 and 7-16 is/are pending in the application. 4a) Of the above claim(s) 8-16 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-5 and 7 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 1/9/09

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Application/Control Number: 10/531,270 Page 2

Art Unit: 1792

Response to Amendment

 Amendment filed on January 9, 2009 has been entered. Claim 6 has been cancelled. No new claims have been added. Claims 1-5, and 7-16 are pending in the application. Claims 8-16 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the

subject matter which the applicant regards as his invention.

Rejection of claims 1-5, and 7 under 35 U.S.C. 112, second paragraph, as being indefinite
in that it fails to point out what is included or excluded by the claim language. This claim is an
omnibus type claim has been withdrawn due to amendment.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
 obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Rejection of claims 1-4 under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Chiba et al (US 6025445) has been withdrawn due to amendment.

Application/Control Number: 10/531,270 Page 3

Art Unit: 1792

 Rejection of claims 1-4 under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Iwahara et al (US 4,904,732) has been withdrawn due to amendment.

- Rejection of claims 1-4 under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hatsutory et al (JP 59078220) has been withdrawn due to amendment.
- Rejection of claims 1-4 under 35 U.S.C. 103(a) as being unpatentable over Chiba et al or Iwahara et al or Hatsutory et al, as applied above, further in view of Kiel (US 3,522,075) has been withdrawn due to amendment.
- Rejection of claims 6-7 under 35 U.S.C. 103(a) as being unpatentable over Hatsutory et al (JP 59-78220) or Hatsutory et al (JP 59-78220) in view of Kiel (US 3,522,075) has been withdrawn due to amendment

Examiner Note

The language of the *original* claim 6 was as follows: "The sealant according to any of claims 1 to 5, in which the sealant comprises a -COOCH3 group-containing compound as a component". Since claim 6 didn't require for the -COOCH3 group-containing compound to be different from the silicon-containing acryl polymer component of claim 1, the -COOCH3 group-containing compound read on any sealant component having -COOCH3 group including the silicon-containing acryl polymer component of claim 1.

However, claim 1 as amended now recites distinctly that the -COOCH3 group-containing compound is present in the scalant in addition to the silicon-containing acryl polymer. Application/Control Number: 10/531,270

Art Unit: 1792

Thus, amended claims require new grounds of rejection based on new search. The new grounds of rejection are as follows:

 Claims 1-4 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Isayama et al (US 4543403) (hereafter "Isayama et al").

Isayama et al discloses a moisture curable composition which is curable even at ordinary temperature (See column 1, lines 5-13), and suitable for use in a sealing material (See column 2, line 1); the composition containing as a main component an acrylate or methacrylate polymer having a moisture reactive silicon functional groups in at least one polymer chain end and capable of providing an elastomeric cured product (See column 2, lines 3-8). The polymer having an organic silicon group in the chain end is prepared by polymerizing (a) a monomer comprising an acrylic or methacrylic acid ester of the general formula (I) CH₂=C R¹COOR² wherein R¹ is hydrogen atom or methyl group, and R² is an alkyl group having 1/1 to 14 carbon atoms (See column 2, lines 12-25) such as methyl group (See column 3, lines 5-10). Thus, the reactive silicon containing acrylate or methacrylate polymer has COOCH₃ group (claimed COOCH₃ group-containing compounds).

Isayama et al fails to teach that that both reactive silicon containing acrylate and methacrylate polymers are used in the scaling composition (claim 1).

It is well settled that it is prima facie obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition which is to be used for the very same purpose.

Art Unit: 1792

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used both reactive silicon containing acrylate and methacrylate polymers in a composition of Isayama et al with the expectation of providing the desired sealing elastomeric cured product.

Claims 1-4 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Isayama
et al. as applied above, further in view of Kiel (US 3.522.075) (hereafter "Kiel").

Isayama et al fails to teach that sealant may be used in combination with a transparent material (Claim 1) such as a building material (Claim 4), e.g. glass (Claim 3) having an antistaining layer on the surface thereof (Claim 1) such as a photocatalyst (Claim 2).

Kiel teaches that an adhesion of a curable organopolysiloxane resin-based composition (See column 5, lines 5-8) to a glass surface may be substantially increased by coating the glass surface with a metal oxide such as titanium dioxide (claimed photocatalyst) (See column 2, lines 14-16) before applying a curable organopolysiloxane resin-based coating (See column 1, lines 42-48).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a curable organopolysiloxane resin-based sealant in the cited prior art for sealing glass surface that is coated with a metal oxide such as titanium dioxide before applying a curable silicon containing composition of Isayama et al with the expectation of providing the desired substantially increased adhesion of the silicone-based sealant to the glass surface, as taught by Kiel.

Application/Control Number: 10/531,270 Page 6

Art Unit: 1792

 Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Isayama et al or Isayama et al in view of Kiel, as applied above, further in view of Kharlamova et al (RU 2005112).

Isayama et al teaches that in case of preparing the curable composition intended for use as a sealing material, there may be incorporated in the composition, plasticizer, filler, reinforcement, antisagging agent, coloring agent, age resister, adhesion accelerator, curing catalyst and modifier for adjusting physical properties (See column 8, lines 37-44). Examples of the plasticizer are a phthalate such as dibutyl phthalate, diheptyl phthalate, di(2-ethylhexyl)phthalate, butylbenzyl phthalate or butylphthalylbutyl glycolate; a non-aromatic dibasic acid ester such as dioctyl adipate or dioctyl sebacate; or mixtures thereof (See column 8, lines 38-56).

Art Unit: 1792

Isayama et al fails to teach that the plasticizer is an acryl-based plasticizer.

Kharlamova et al teaches that either dibutyl phthalate or oligoether acrylate may be as a plasticizer in a coating composition (See Abstract). In other words, Kharlamova et al teaches that oligoether acrylate is suitable for the use as a plasticizer in a coating composition. It is held that the selection of a known material based on its suitability for its intended use supported a prima facie obviousness determination in Sinclair & Carroll Co. v. Interchemical Corp., 325 U.S. 327, 65 USPQ 297 (1945). See MPEP 2144.07.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have used oligoether acrylate (claimed acryl based plasticizer) as a plasticizer in the cited prior art since Kharlamova et al teaches that oligoether acrylate is suitable for the use as a plasticizer in a coating composition.

Response to Arguments

13. Applicant's arguments with respect to claims 1-5 and 7 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

14. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

Art Unit: 1792

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elena Tsoy Lightfoot whose telephone number is 571-272-1429. The examiner can normally be reached on Monday-Friday, 9:00AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Elena Tsoy Lightfoot, Ph.D. Primary Examiner Art Unit 1792

March 10, 2009

/Elena Tsov Lightfoot/